**Rubric for: A balloon floating is like…..because…..**

The following is a description of 5 individual categories. Some answers will contain statements that are indicative or more than one category. The following are rules for responses containing statements from more than one category.

1. If any of the statements are correct causal, then categorize as C.

2. If it is not causal but contains a statement of incorrect cause, categorize as IC

1. **Causal (C)** – Floating is caused by an object being less dense or more buoyant that its surroundings.

Example of a causal statement: *A balloon floating in air is like the ice cube floating in the water, They are similar because they both caused by the lower density than others (air, water).*

A. Synonyms for density difference: buoyancy,

B. Synonyms for cause: related to, influenced by, due to, based on, occur at or by, effected by, formed by, based on, occur at, require

Note: there were a few statements that the balloon is denser than the surroundings. I called this calusal because I think the person meant to write the opposite. There are also statements about molecues being more or less dense. It’s the density of substances, not molecues that matters but I’ve included this in the causal category.

2. **Causal incorrect (IC)**- This type of statement is causal but incorrect. Often refer to wind or currents. Be careful distinguishing this category from uncertain.

*A balloon floating in air is like a leaf blowing in the wind. They are similar because they are carried by the wind.*

Describes a causal action but is too vague: Example: *A balloon floating in air is like an airplane flying in the sky. In both cases, each element is somehow moving through the air, whether it be by natural causes or by man-man materials.*

3. **Uncertain (un)-** The refers to pressure, use heavy and light as possible snonyms for density, refers to equilibrium, refers to unspecified different properties, forces or processes, air, hot air, helium

Example: *A balloon floating in air is like an ice cube floating in water. 2. They are similar because they both can be causes of being lighter then the substance that is around it.*

4. **Non-causal (NC)-** float, weightless, describes movement or position or place,.

Example: *A balloon floating in the air is like evaporation. They are similar because both rise into the atmosphere, and eventually return back down to the earth.*

5. **Insufficient Information (II):**

A. The answer is vague or incomplete.

Example: *A balloon floating in air is like*